

**INFORMATION DISCLOSURE  
CITATION**

ATTY. DOCKET NO.

SERIAL NO.

620-366

10/537,543

APPLICANT

SLATER et al.

(Use several sheets if necessary)

FILING DATE

GROUP

June 3, 2005

~~Unassigned~~ 1636**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
KM	5,028,689	07/1991	Heinz et al.			
↓	5,948,878	09/1999	Burgess et al.			
↓	6,063,370	05/2000	Dadey			
↓	6,210,717	04/2001	Choi et al.			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
KM	WO 98/35688	08/1998	WIPO				
↓	WO 99/09955	03/1999	WIPO				
↓	WO 02/092554	11/2002	WIPO				
↓	EP 0 727 223 A1	08/1996	Europe				
↓	670 721	04/1952	Great Britain				
↓	WO 98/19710	05/1998	WIPO				
↓	WO 99/55743	11/1999	WIPO				
↓	WO 99/42091	08/1999	WIPO				
↓	WO 00/63409	10/2000	WIPO				

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

KM	Agi, Y., et al., 1997, "Fluorescence monitoring of the microenvironmental pH of highly charged polymers", <u>Journal of Polymer Science, Part A: Polymer Chemistry</u> , Vol. 35, pp. 2105-2110.
↓	Maeda, M., et al., 1988, "H <sup>+</sup> -induced release of contents of phosphatidylcholine vesicles bearing surface-bound polyelectrolyte chains", <u>J. Am. Chem. Soc.</u> , Vol. 110, pp. 7455-7459.
↓	Mandel et al., 1967, "The conformational transition of poly(methacrylic acid) in solution," <u>J. Phys. Chem.</u> , Vol. 71, No. 3, pp. 603-612.
↓	Marecos, E., et al., 1998, "Antibody-mediated versus nontargeted delivery in a human small cell lung carcinoma model," <u>Bioconjugate Chem.</u> , Vol. 9, No. 2, pp. 184-191.
↓	Matthews, S.E., et al., 1996, "Macromolecular systems for chemotherapy and magnetic resonance imaging", <u>Advanced Drug Delivery Reviews</u> , Vol. 18, pp. 219-267.
↓	Muller, G., 1974, "Electric permittivity of polyelectrolytes. I. Effect of ionization on the dielectric behaviour of a polycondensate between L-lysine and 1,3-benzene disulfonyl chloride", <u>Polymer Letters Edition</u> , Vol. 12, pp. 319-326.
↓	Mungara, P.M., et al., 1993, "Synthesis of polyamides containing dipeptide linkages," <u>Chem. Mater.</u> , Vol. 5, No. 9, pp. 1242-1246.
↓	Mungara, P.M., et al., 1994, "Chapter 11: Synthesis of Functionalized Targeted Polyamides," in <u>ACS Symp. Ser.</u> , Vol. 575, pp. 160-170.

\*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

**INFORMATION DISCLOSURE  
CITATION**

ATTY. DOCKET NO.

SERIAL NO.

620-366

10/537,543

APPLICANT

SLATER et al.

(Use several sheets if necessary)

FILING DATE

GROUP

June 3, 2005

~~Unassigned~~ 1636
**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

KM	Murthy, N., et al., 1999, "The design and synthesis of polymers for eukaryotic membrane disruption," <u>J. Controlled Release</u> , Vol. 61, pp. 137-143.
	Nagasawa, M., 1971, "Potentiometric titration and conformation of synthetic and natural polyelectrolytes," <u>Pure Appl. Chem.</u> , Vol. 26, Nos. 3-4, pp. 519-536.
	Ohno, N., et al., 1973, "Conformational transition of the copolymer of maleic acid and styrene in aqueous solutions," <u>J. Polymer Science: Polymer Physics Edition</u> , Vol. 11, pp. 413-425.
	Ostolaza, H., et al., 1997, "Balance of electrostatic and hydrophobic interactions in the lysis of model membranes by <i>E. coli</i> $\alpha$ -haemolysin," <u>J. Membrane Biol.</u> , Vol. 158, pp. 137-145.
	Parkhe, A.D., et al., 1998, "Effect of local sequence inversions on the crystalline antiparallel $\beta$ -sheet lamellar structures of periodic polypeptides: implications for chain-folding", <u>International Journal of Biological Macromolecules</u> , Vol. 23, pp. 251-258.
	Pichon, C., et al., 2001, "Histidine-rich peptides and polymers for nucleic acids delivery", <u>Advanced Drug Delivery Reviews</u> , Vol. 53, pp. 75-94.
	Plank, C., et al., 1995, "The influence of endosome-disruptive peptides on gene transfer using synthetic virus-like gene transfer systems," <u>J. Biol. Chem.</u> , Vol. 269, pp. 12918-12924.
	Pokhrel, M.R., et al., 2000, "Synthesis, characterization, and first application of high molecular weight polyacrylic acid derivatives possessing perfluorinated side chains and chemically linked pyrene labels", <u>J. Phys. Chem. B.</u> , Vol. 104, pp. 2215-2223.
	Reddington, M.V., 1998, "New glycoconjugated cyanine dyes as fluorescence labelling reagents," <u>J. Chem. Soc., Perkin Trans.</u> , Vol. 1, pp. 143-147.
	Amiji, M.M., et al., 2001, "pH-Responsive Polymer Microspheres: Rapid Release of Encapsulated Material Within the Range of Intracellular pH", <u>Angewandte Chemie International</u> , Vol. 40, pp. 1707-1710.
	Angelova, N., et al., 1999, "Rationalizing the design of polymeric biomaterials," <u>TIBTECH</u> , October 1999, Vol. 17, pp. 409-421.
	Anghel, D.F., et al., 1998, "Fluorescent dyes as model 'hydrophobic modifiers' of polyelectrolytes: a study of poly(acrylic acid)s labelled with pyrenyl and naphthyl groups," <u>Polymer</u> , Vol. 39, No. 14, pp. 3035-3044.
	Anufrieva, E.V., et al., 1968, "The models of denaturation of globular proteins. II. Hydrophobic interactions and conformational transition in polymethacrylic acid," <u>J. Polymer Science: Part C</u> , No. 16, pp. 3519-3531.
	Hoffman, A.S., et al., 2000, "Really smart bioconjugates of smart polymers and receptor proteins," <u>Smart Bioconjugates</u> (Founder's Award, Sixth World Biomaterials Congress 2000, Kamuela, HI, May 15-20, 2000), pp. 577-586.
✓	Huguet, J., et al., 1991, "Hydrosoluble polymeric drug carriers derived from citric acid and L-lysine", <u>American Chemical Society</u> , pp. 407-417.

Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

**INFORMATION DISCLOSURE  
CITATION**

ATTY. DOCKET NO.

SERIAL NO.

620-366

10/537,543

APPLICANT

SLATER et al.

(Use several sheets if necessary)

FILING DATE

GROUP

June 3, 2005

~~Unassigned~~

1636

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

KM	Jensen, K.D., et al., 2001, "The cytoplasmic escape and nuclear accumulation of endocytosed and microinjected HPMA copolymers and a basic kinetic study in Hep G2 cells," <u>American Association of Pharmaceutical Scientists</u> , Vol. 3, No. 4, Article 32, pp. 1-14.
	Jones, G., et al., 2001, "Azole-linked coumarin dyes as fluorescence probes of domain-forming polymers", <u>Journal of Photochemistry and Photobiology B: Biology</u> , Vol. 65, pp. 5-12.
	Jones, G., et al., 1994, "Fluorescence properties of coumarin laser dyes in aqueous polymer media. Chromophore isolation in poly(methacrylic acid) hypercoils", <u>Journal of Physical Chemistry</u> , Vol. 98, No. 49, pp. 13028-13037.
	Klick, K.L., et al., 2000, "Protein engineering by in vivo incorporation of non-natural amino acids: control of incorporation of methionine analogues by methionyl-tRNA synthetase", <u>Tetrahedron</u> , Vol. 56, pp. 9487-9493.
	Klick, K.L., et al., 2001, "Identification of an expanded set of translationally active methionine analogues in <i>Escherichia coli</i> ", <u>FEBS Letters</u> , Vol. 502, pp. 25-30.
	Kimoto, A., et al., 1992, "Antitumor effects of SMANCS on rat mammary tumor induced by 7,12-dimethylbenz[a]anthracene," <u>Cancer Research</u> , Vol. 52, pp. 1013-1017.
	Kitano, H., et al., 1991, "pH-responsive liposomes which contain amphiphiles prepared by using lipophilic radical initiator", <u>Macromolecules</u> , Vol. 24, pp. 42-46
	Kost, J., et al., 1991, "Responsive polymeric delivery systems", <u>Advanced Drug Delivery Reviews</u> , Vol. 6, pp. 19-50.
	Kumar, M.N.V.R., 2000, "Nano and microparticles as controlled drug delivery devices", <u>J. Pharm. Pharmaceut. Sci.</u> , Vol. 3, pp. 234-258.
	Lackey, C.A., et al., 1999, "Hemolytic activity of pH-responsive polymer-streptavidin bioconjugates", <u>Bioconjugate Chem.</u> , Vol. 10, pp. 401-405.
	Langer, R., 1990, "New Methods of Drug Delivery", <u>Science</u> , Vol. 249, pp. 1527-1531.
	Leyte, J.C. and Mandel, M., 1964, "Potentiometric Behaviour of Polymethacrylic acid", <u>J. Poly. Sci. Part. A</u> , Vol. 2, pp. 1879-1891.
	Li, C., et al., 1989, "Synthesis of poly(iminocarbonates): degradable polymers with potential applications as disposable plastics and as biomaterials," <u>Macromolecules</u> , Vol. 22, No. 5, pp. 2029-2036.
	Reddington, M.V., 1998, "New glycosylated cyanine dyes as fluorescent labeling reagents," <u>J. Chem. Soc., Perkin Trans. 1</u> , pp. 143-148.
	Rihova, B., et al., 2001, "Doxorubicin bound to a HPMA copolymer carrier through hydrazone bond is effective also in a cancer cell line with a limited content of lysosomes," <u>J. Control. Rel.</u> , Vol. 74, pp. 225-232.
↓	Ringsdorf, H., 1975, "Structure and properties of pharmacologically active polymers," <u>J. Polymer Science: Symposium No. 51</u> , pp. 135-153.

\*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

**INFORMATION DISCLOSURE  
CITATION**

ATTY. DOCKET NO.

SERIAL NO.

620-366

10/537,543

APPLICANT

SLATER et al.

(Use several sheets if necessary)

FILING DATE

GROUP

June 3, 2005

~~Unassigned~~ 1636
**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

KM	Rösler, A., et al., 2001, "Advanced drug delivery devices via self-assembly of amphiphilic block copolymers", <u>Advanced Drug Delivery Reviews</u> , Vol. 53, pp. 95-108
	Rutkaite R., et al., 2001, "Fluorescence properties of carbazoyl-containing amphiphilic polymers," <u>J. Photochem. Photobiol. A: Chem.</u> , Vol. 138, pp. 245-251.
	Saotome, K., et al., 1967, "Optically active polyamides with regular structural sequences prepared from $\alpha$ -amino acid," <u>Die Makromolekulare Chemie</u> , Vol. 109, pp. 239-248.
	Seymour, L.W., et al., 1995, "Influence of molecular weight on passive tumour accumulation of a soluble macromolecular drug carrier," <u>European Journal of Cancer</u> , Vol. 31A, No. 5, pp. 766-770.
	Styring et al., 1989, in: <u>Determination of Molecular Weight</u> , Cooper AR, editor (Wiley, New York), pp. 263-300.
	Sugai, S., et al., 1986, "Conformations of Hydrophobic Polyelectrolytes", <u>Advances in Colloid and Interface Science</u> , Vol. 24, pp. 247-282.
	Taillefer, J., et al., 2001, "In-vitro and in-vivo evaluation of pH-responsive polymeric micelles in a photodynamic cancer therapy model", <u>Journal of Pharmacy and Pharmacology</u> , Vol. 53, No. 2, pp. 155-166.
	Thomas, J.L., et al., 1992, "Polyelectrolyte-sensitised phospholipid vesicles," <u>Acc. Chem. Res.</u> , Vol. 25, pp. 336-342.
	Thomas, J.L., et al., 1994, "Membrane solubilization by a hydrophobic polyelectrolyte: surface activity and membrane binding," <u>Biophysical Journal</u> , Vol. 67, pp. 1101-1106.
	Thomas, J.L., et al., 1996, "Modulation of mobilities of fluorescent membrane probes by adsorption of a hydrophobic polyelectrolyte," <u>Macromolecules</u> , Vol. 29, No. 7, pp. 2570-2576.
	Thomas, J.L., et al., 2000, "Polymer-induced leakage of cations from dioleoyl phosphatidylcholine and phosphatidylglycerol liposomes", <u>Journal of Controlled Release</u> , Vol. 67, pp. 203-209.
	Tirrell, J.G., et al., 1996, "Synthesis of biopolymers: proteins, polyesters, polysaccharides and polynucleotides," <u>Current Opinion in Solid State &amp; Materials Science</u> , Vol. 1, pp. 407-411.
	Tonge, S.R., et al., 2001, "Responsive hydrophobically associating polymers: a review of structure and properties", <u>Advanced Drug Delivery Reviews</u> , Vol. 53, pp. 109-122.
✓	Tung, C-H., et al., 2000, "In-vivo imaging of proteolytic enzyme activity using a novel molecular reporter", <u>Cancer Research</u> , Vol. 60, pp. 4953-4958.
	<del>Weissleder, R., et al., 1999, "In vivo imaging of tumours with protease-activated near infrared fluorescent probes," <u>Nature Biotechnology</u>, Vol. 17, pp. 375-378. not provided</del>
KM	Atkins, P.W., 1989, <u>Physical Chemistry</u> , third edition, (publisher: Oxford University Press), pp. 615-620.

\*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

**INFORMATION DISCLOSURE  
CITATION**

ATTY. DOCKET NO.

620-366

APPLICANT

SLATER et al.

FILING DATE

June 3, 2005

SERIAL NO.

10/537,543

GROUP

~~Unassigned~~

1636

(Use several sheets if necessary)

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

KM	Ballou, B., et al., 1997, "Tumour detection and cyanine visualisation using flurochrome-labeled antibodies," <u>Biotechnol. Progr.</u> , Vol. 13, pp. 649-658.
	Boudreaux, C.J., et al., 1997, "Controlled activity polymers. XI Hydrolytic release studies of hydrophilic copolymers with labile esters of model allelopathic phenols", <u>Journal of Controlled Release</u> , Vol. 44, pp. 185-194.
	Boustta, M., et al., 1991, "New functional polyamides derived from citric acid and L-lysine: synthesis and characterization," <u>Makromol. Chem. Macromol. Symp.</u> , Vol. 47, pp. 345-355.
	Chee, C.K., et al., 2001, "Fluorescence investigations of the thermally induced conformational transition of poly( <i>N</i> -isopropylacrylamide)", <u>Polymer</u> , Vol. 42, pp. 5079-5087.
	Coley M.C, Lewandowicz G, Sargent J.M and Verill M, 1997, "Chemosensitivity testing of fersh and continuous tumour cell cultures using lactate dehydrogenase," <u>Anticancer Research</u> , Vol. 17, pp. 231-236.
	Delaire, J.A., et al., 1984, "Quenching of fluorescence in water-soluble copolymers of methacrylic acid and vinylidiphenylanthracene," <u>J. Phys. Chem.</u> , Vol. 88, pp. 6219-6227.
	Domb, A.J., 1990, "Biodegradable polymers derived from amino acids," <u>Biomaterials</u> , Vol. 11, pp. 686-689.
	Doty, P., et al., 1957, "Polypeptides. VIII. Molecular configurations of poly-L-glutamic acid in water-dioxane solution", <u>Journal of Polymer Science</u> , Vol. XXIII, pp. 851-860.
	Dubin, P.L., et al., 1970, "Hydrophobic bonding in alternating copolymers of maleic acid and alkyl vinyl ethers," <u>J. Phys. Chem.</u> , Vol. 74, No. 14, pp. 2842-2847.
	Eccleston M.E., et al., 1999, "Synthetic routes to responsive polymers: co-polycondensation of tri-functional amino acids with diacylchlorides," <u>Reactive and Functional Polymers</u> , Vol. 42, pp. 147-161.
	Eccleston, M.E. et al., 2000, "pH-Responsive Pseudo-Peptides for Cell Membrane Disruption," <u>J. Controlled Release</u> , Vol. 69, p. 297-307.
	Eccleston, M.E. et al., 2004, "Optical characteristics of responsive biopolymers; co-polycondensation of tri-functional amino acids and Cy-3 bis-amine with diacylchlorides", <u>Polymer</u> , Vol. 45, pp. 25-32.
	Fenyo, J.C., et al., 1979, "Polyelectrolytes conformational probes: Auramine O and ethidium bromide interactions with hypercoiling maleic acid-olefin copolymers", <u>J. Polym. Sci., Polym. Chem. Ed.</u> , Vol. 17, No. 12, pp. 4069-4080.
	Fiordeliso, J., et al., 1994, "Design, synthesis, and preliminary characterization of tyrosine-containing polyarylates: new biomaterials for medical applications," <u>J. Biomater. Sci. Polymer Edn.</u> , Vol. 5, No. 6, pp. 497-510.
✓	Gautier, S., et al., 1999, "Alkylated poly(L-lysine citramide) as models to investigate the ability of amphiphilic macromolecular drug carriers to physically entrop lipophilic compounds in aqueous media", <u>Journal of Controlled Release</u> , Vol. 60, pp. 235-247.

\*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

